

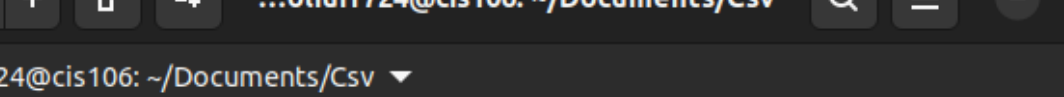
Lab 7 Submission

Question 1

```
1/1 + [icons] Tilix: oliurr724@cis106: ~/Documents/Csv
1: oliurr724@cis106: ~/Documents/Csv
oliurr724@cis106:~/Documents$ cd Csv/
oliurr724@cis106:~/Documents/Csv$ ls
cars.csv  cereal.csv  contacts.csv  country.csv  film.csv
oliurr724@cis106:~/Documents/Csv$ cat cereal.csv
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
100% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912

1/1 + [icons] ...oliurr724@cis106: ~/Documents/Csv
1: oliurr724@cis106: ~/Documents/Csv
Count Chocula;G;C;110;1;1;180;0;12;13;65;25;2;1;1;22.396513
Corn Pops;K;C;110;1;0;90;1;13;12;20;25;2;1;1;35.782791
Corn Flakes;K;C;100;2;0;290;1;21;2;35;25;1;1;1;45.863324
Corn Chex;R;C;110;2;0;280;0;22;3;25;25;1;1;1;41.445019
Cocoa Puffs;G;C;110;1;1;180;0;12;13;55;25;2;1;1;22.736446
Clusters;G;C;110;3;2;140;2;13;7;105;25;3;1;0.5;40.400208
Cinnamon Toast Crunch;G;C;120;1;3;210;0;13;9;45;25;2;1;0.75;19.823573
Cheerios;G;C;110;6;2;290;2;17;1;105;25;1;1;1.25;50.764999
Cap'n Crunch;Q;C;120;1;2;220;0;12;12;35;25;2;1;0.75;18.042851
Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813
Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253
Basic 4;G;C;130;3;2;210;2;18;8;100;25;3;1.33;0.75;37.038562
Apple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094
Apple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541
Almond Delight;R;C;110;2;2;200;1;14;8;-1;25;3;1;0.75;34.384843
All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
100% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
String;Categorical;Categorical;Int;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating
oliurr724@cis106:~/Documents/Csv$ tac cereal.csv_
```

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1/1 ▾ + 🏠 🗨️
Tilix: oliurr724@cis106: ~/Documents/Csv
1: oliurr724@cis106: ~/Documents/Csv ▾
oliurr724@cis106:~/Documents/Csv$ cat -nEv cereal.csv
1 name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating^M$
2 String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float^M$
3 100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973^M$
4 100% Natural Bran;Q;C;120;3;5;15;2;8;0;135;0;3;1;1;33.983679^M$
5 All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505^M$
6 All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912^M$
7 Almond Delight;R;C;110;2;2;200;1;14;8;-;1;25;3;1;0.75;34.384843^M$
8 Apple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541^M$
9 Apple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094^M$
10 Basic 4;G;C;130;3;2;210;2;18;8;100;25;3;1.33;0.75;37.038562^M$
11 Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253^M$
12 Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813^M$
13 Cap'n Crunch;Q;C;120;1;2;220;0;12;12;35;25;2;1;0.75;18.042851^M$
14 Cheerios;G;C;110;6;2;290;2;17;1;105;25;1;1;1.25;50.764999^M$
15 Cinnamon Toast Crunch;G;C;120;1;3;210;0;13;9;45;25;2;1;0.75;19.823573^M$
16 Clusters;G;C;110;3;2;140;2;13;7;105;25;3;1;0.5;40.400208^M$
17 Cocoa Puffs;G;C;110;1;1;180;0;12;13;55;25;2;1;1;22.736446^M$
18 Corn Chex;R;C;110;2;0;280;0;22;3;25;25;1;1;1;41.445019^M$
19 Corn Flakes;K;C;100;2;0;290;1;21;2;35;25;1;1;1;45.863324^M$
20 Corn Pops;K;C;110;1;0;90;1;13;12;20;25;2;1;1;35.782791^M$
```



A terminal window titled "...oliurr724@cis106: ~/Documents/Csv" showing the following commands and output:

```
1: oliurr724@cis106: ~/Documents/Csv
oliurr724@cis106:~/Documents/Csv$ head -n 2 cereal.csv
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float
oliurr724@cis106:~/Documents/Csv$ tail -n 2 cereal.csv
Wheaties;G;C;100;3;1;200;3;17;3;110;25;1;1;1;51.592193
Wheaties Honey Gold;G;C;110;2;1;200;1;16;8;60;25;1;1;0.75;36.187559
oliurr724@cis106:~/Documents/Csv$ _
```

Question 2

```
1/1 + ...oliurr724@cis106: ~/Documents/Csv 1: oliurr724@cis106: ~/Documents/Csv
oliurr724@cis106:~/Documents/Csv$ head -n 1 cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
oliurr724@cis106:~/Documents/Csv$ cut -d";" -f1 cars.csv
Car
STRING
Chevrolet Chevelle Malibu
Buick Skylark 320
Plymouth Satellite
AMC Rebel SST
Ford Torino
Ford Galaxie 500
Chevrolet Impala
Plymouth Fury iii
Pontiac Catalina
AMC Ambassador DPL
Citroen DS-21 Pallas
```

```
1/1 + ...oliurr724@cis106: ~/Documents/Csv 1: oliurr724@cis106: ~/Documents/Csv
oliurr724@cis106:~/Documents/Csv$ cut -d";" -f1,3 cars.csv
Car;Cylinders
STRING;INT
Chevrolet Chevelle Malibu;8
Buick Skylark 320;8
Plymouth Satellite;8
AMC Rebel SST;8
Ford Torino;8
Ford Galaxie 500;8
Chevrolet Impala;8
Plymouth Fury iii;8
Pontiac Catalina;8
AMC Ambassador DPL;8
Citroen DS-21 Pallas;4
Chevrolet Chevelle Concours (sw);8
Ford Torino (sw);8
Plymouth Satellite (sw);8
AMC Rebel SST (sw);8
Dodge Challenger SE;8
Plymouth 'Cuda 340;8
Plymouth Horizon Miser = 4
Mercury Lynx l = 4
Nissan Stanza XE = 4
Honda Accord = 4
Toyota Corolla = 4
Honda Civic = 4
Honda Civic (auto) = 4
Datsun 310 GX = 4
Buick Century Limited = 6
Oldsmobile Cutlass Ciera (diesel) = 6
Chrysler Lebaron Medallion = 4
Ford Grenada l = 6
Toyota Celica GT = 4
Dodge Charger 2.2 = 4
Chevrolet Camaro = 4
Ford Mustang GL = 4
Volkswagen Pickup = 4
Dodge Rampage = 4
Ford Ranger = 4
oliurr724@cis106:~/Documents/Csv$ cut -d";" -f1,3 cars.csv --output-delimiter="_"
```

Applications Places Lab 7 - Handling files ... [lab7.md - cis106 - Vis... Tilix: oliurr724@cis106... 4:57 AM

```

Volkswagen Super Beetle 117;0;4;97.00;48.00;1978.;20.0;71;Europe
Volkswagen Super Beetle;26.0;4;97.00;46.00;1950.;21.0;73;Europe
Volkswagen Type 3;23.0;4;97.00;54.00;2254.;23.5;72;Europe
Volvo 144ea;19.0;4;121.0;112.0;2868.;15.5;73;Europe
Volvo 145e (sw);18.0;4;121.0;112.0;2933.;14.5;72;Europe
Volvo 244DL;22.0;4;121.0;98.00;2945.;14.5;75;Europe
Volvo 245;20.0;4;130.0;102.0;3150.;15.7;76;Europe
Volvo 264gl;17.0;6;163.0;125.0;3140.;13.6;78;Europe
Volvo Diesel;30.7;6;145.0;76.00;3160.;19.6;81;Europe
oliurr724@cis106:~/Documents/Csv$ sort cars.csv

Muesli Raisins, Dates, & Almonds;R;C;150;4;3;95;3;16;11;170;25;3;1;1;37.136863
Mueslix Crispy Blend;K;C;160;3;2;150;3;17;13;160;25;3;1.5;0.67;30.313351
Puffed Rice;Q;C;50;1;0;0;0;13;0;15;0;3;0.5;1;60.756112
Puffed Wheat;Q;C;50;2;0;0;1;10;0;50;0;3;0.5;1;63.005645
All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
Shredded Wheat;N;C;80;2;0;0;3;16;0;95;0;1;0.83;1;68.235885
Raisin Squares;K;C;90;2;0;0;2;15;6;110;25;3;1;0.5;55.333142
Strawberry Fruit Wheats;N;C;90;2;0;15;3;15;5;90;25;2;1;1;59.363993
Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253
Shredded Wheat spoon size;N;C;90;3;0;0;3;20;0;120;0;1;1;0.67;72.801787
Shredded Wheat 'n'Bran;N;C;90;3;0;0;4;19;0;140;0;1;1;0.67;74.472949
Nutri-grain Wheat;K;C;90;3;0;170;3;18;2;90;25;3;1;1;59.642837
Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;s
help;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Flo
at;Float;Float
oliurr724@cis106:~/Documents/Csv$ sort -t";" -k4 cereal.csv_

```

Question 3


```
oliurr724@cis106:~/Documents/Books$ grep "War" war-and-peace.txt
The Project Gutenberg eBook of War and Peace, by Leo Tolstoy
Title: War and Peace
the Minister of War."
in to the Minister of War. Five minutes later he returned and bowing
corridor to the cabinet where the Minister of War was at work. The
narrowed disdainfully, he entered the room of the Minister of War with
interested the Minister of War less than any of the other matters he was
indifferent hands of the Minister of War and the polite adjutant. The
engagement and his reception by the Minister of War.
```

```
Men uniting in these combinations always assume such relations toward
is it that millions of men commit collective crimes—make war, commit
every bit of it is occasioned by the forward movement of the ship,
same applies to historical events. Why war and revolution occur we do
downwards, a man indubitably believes this and always expects the law
in memory, or what is the same thing the farther I go forward in my
The Austro-Prussian war appears to us undoubtedly the result of the
crafty conduct of Bismarck, and so on. The Napoleonic wars still seem
or mother, or self-sacrifice with the possibility of a reward, is more
with the self-destruction toward which—ever dissecting and dissecting
*** END OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***
```

```
1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES - Except for the "Right
LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE
OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.
warranties or the exclusion or limitation of certain types of
```

```
oliurr724@cis106:~/Documents/Books$ grep -i "War" war-and-peace.txt_
```

```
oliurr724@cis106:~/Documents/Books$ grep -ic "War" war-and-peace.txt
1255
```

```
oliurr724@cis106:~/Documents/Books$ grep -iwc "War" war-and-peace.txt
293
```

```
oliurr724@cis106:~/Documents/Books$ grep -in "^peace" war-and-peace.txt
```

```
5542:peace. The old man was beside himself: moved the chair on which he was
20046:peace."
```

```
26471:peace." But however much they left her in peace she could not now be
33900:peace so long as a single armed enemy remained on Russian soil and told
34397:peace with you. As for the Swedes—it is their fate to be governed by
35057:peace nor war, neither an advance nor a defensive camp at the Drissa
36617:peace and the abolition of war, and secondly, by the fact that when he
44768:peaceful, and glorious fatherland, I should have proclaimed
51593:peace arising from consciousness of having stifled those personal dreams
58824:peace, he said: There can be no peace, for such is the people's will. He
59768:peaceful refuge where he could recover himself, rest, and think over
```

```
oliurr724@cis106:~/Documents/Books$ _
```

```

65074:The naturalists and their followers, thinking they can solve this
65097:The subject for history is not man's will itself but our presentation of
65139:The proportion of freedom to inevitability decreases and increases
65177:The first consideration is the clearness of our perception of the man's
65199:The second consideration is the more or less evident time relation of
65208:The degree of our conception of freedom or inevitability depends in this
65233:The Austro-Prussian war appears to us undoubtedly the result of the
65246:The third consideration is the degree to which we apprehend that
65252:The better we are acquainted with the physiological, psychological, and
65466:The great natural forces lie outside us and we are not conscious of
65527:The recognition of man's free will as something capable of influencing
65544:The more this field of motion spreads out before our eyes, the more
65561:The search for these laws has long been begun and the new methods of
65622:The struggle between the old views and the new was long and stubbornly
65963:The Project Gutenberg Literary Archive Foundation is a non-profit
65971:The Foundation's business office is located at 809 North 1500 West,
65987:The Foundation is committed to complying with the laws regulating
oliurr724@cis106:~/Documents/Books$ grep -nw "^The" war-and-peace.txt_

```

```

./dracula.txt:the holiest love was the recruiting sergeant for their ghastly r
anks.
./dracula.txt:girls that you all love are mine already; and through them you a
nd
./dracula.txt:so full of love and tenderness, "Jonathan dear, and you all my t
rue,
./dracula.txt:one is my poor wronged darling. I love her a thousand times more
for her
./dracula.txt:for the safety of one we love--for the good of mankind, and for
the
./dracula.txt:friends who love me. But death is not all. I cannot believe that
to die
./dracula.txt:towards those whom they love, in such times of sore trial! And o
h, my
./dracula.txt:how I love and honour you, when a word for your good, spoken mor
e
./dracula.txt:woman open and look love, and the voluptuous mouth present to a
./dracula.txt:some of my sex to love and to protect one of hers, made my head
whirl
oliurr724@cis106:~/Documents/Books$ grep -Rwi "love" /

```

```

out of their view until
./great-expectations.txt:14327:lived, before going up the stairs, Garden Cour
t was as still and
./great-expectations.txt:14639:lived at the top of Compeyson's house (over ni
gh Brentford it was), and
./great-expectations.txt:16620:lived in the supplementary house across the ba
ck courtyard, opened the
./great-expectations.txt:16969:liked about informing the rest. This I did nex
t day, through Herbert,
./great-expectations.txt:17777:lay directly in my way, and had been worked th
at day, as I saw by the
./dracula.txt:5597:lay down, and when I went over to Bersicker he let me strok
e his ears
./dracula.txt:9540:loved and honoured as our host is, everything regarding him
is of
./dracula.txt:14713:loved him and honoured him more than I can say, and that m
y latest and
./dracula.txt:15427:loved her, that they did dare much for her sake."
oliurr724@cis106:~/Documents/Books$ grep -nR "^l...d" ./_

```

```
oliurr724@cis106:~/Documents/Books$ grep -wniR "^d[aeiou]..." ./
./war-and-peace.txt:1028:don't feel that weakness in myself as yet, I know a l
little person who
./war-and-peace.txt:2026:don't need it? Now you shall judge between us. I alwa
ys tell him: Here
./war-and-peace.txt:2755:day," said the visitor. "What a charming child," she
added,
./war-and-peace.txt:2864:dear, there's friendship for you," he repeated. "He's
joining
./war-and-peace.txt:2882:don't wish to let me go, I'll stay. But I know I am n
o use anywhere
./war-and-peace.txt:2884:don't know how to hide what I feel." As he spoke he k
ept glancing
./war-and-peace.txt:3220:do it."
./war-and-peace.txt:3284:door, and added in a whisper so that her son should n
ot hear, "Wish me
./war-and-peace.txt:3291:dear. We will see how Tarás distinguishes himself tod
ay. He says Count
./war-and-peace.txt:3608:doesn't make a mess of things!"
./war-and-peace.txt:3667:don't know me. We have not met for such a long time..
. not since we
```

```
oliurr724@cis106:~/Documents/Books$ grep -iE "a{2}" dracula.txt
help me deck the room with my garlic, which is all the way from Haarlem,
Haarlem. To-night Dr. Van Helsing is going away, as he has to be for a
oliurr724@cis106:~/Documents/Books$
```